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DATE OF DEPOSIT: November 4, 2003

NAME: Kristin Tharski

SIGNATURE: Kristin Tharski

Transmitted herewith for filing is the patent  
application of:

Inventors: **Marco BRANCIFORTE**  
**Antonino CALABRO'**  
**Domenico PORTO**

For: **QUANTUM GATE FOR CARRYING OUT A GROVER'S QUANTUM ALGORITHM AND  
A RELATIVE METHOD OF PERFORMING THE INTERFERENCE OPERATION OF A  
GROVER'S QUANTUM ALGORITHM**

**Enclosed are:**

- ☒ Patent Application: 23 pages, 13 claims  
9 sheets of drawings  
The suggested drawing figure to be published is FIG. 8.  
A Preliminary Amendment (with 3 replacement drawing sheets).  
Assignee info:  
Name: STMicronics S.r.l.  
Address: Via C. Olivetti, 2, 20041 Agrate Brianza (MI), Italy  
Country of Incorporation: Italy
- ☒ Applicant claims priority benefit to the following U.S. application(s):  
Application No.: 10/615,446  
Filing Date: July 8, 2003
- and
- Application No.: (Not Yet Assigned)  
Filing Date: November 4, 2003
- ☒ Applicant claims priority benefit to the following foreign application(s):  
Country: Europe  
Application No.: 02425447.6; Filing Date: July 8, 2002
- and
- Country: Europe  
Application No.: 02425672.9; Filing Date: November 4, 2002
- and
- Country: Europe  
Application No.: 03425080.3; Filing Date: February 11, 2003

The Declaration and Filing Fee are **NOT ENCLOSED**.

☒ Name, Address and Citizenship of Inventor(s) is as follows:

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☒ Associate this file with Customer No. 27975.



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PATENT TRADEMARK OFFICE

Date: November 4, 2003

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